STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/608, 804A_

Source: _1FW/6_

Date Processed by STIC: _8/9/06_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
        http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED **SUGGESTED CORRECTION** SERIAL NUMBER: _10/608,804A_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1____Wrapped Nucleics   The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
     Wrapped Aminos   was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will
    prevent "wrapping."

2____Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3____Misaligned Amino   The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers;
    Numbering   use **space characters**, instead.

4____Non-ASCII   The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please
ensure your subsequent submission is saved in ASCII text.**

5____Variable Length   Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules,
each n or Xaa can only represent a single residue.** Please present the **maximum** number of each
residue having variable length and indicate in the <220>-<223> section that some may be missing.

6____PatentIn 2.0   A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
    "bug"   sequences(s) _____. Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for
Artificial or Unknown sequences.**

7____Skipped Sequences Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
    (OLD RULES)   (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8____Skipped Sequences Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
    (NEW RULES)   <210> sequence id number
<400> sequence id number
000

9____Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
    (NEW RULES)   Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.

10____Invalid <213>   Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or
    Response   scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or
is Artificial Sequence. (see item 11 below)

11____Use of <220>   Sequence(s) _65-66_ missing the <220> "Feature" and associated numeric identifiers and responses. Use
of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as
explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of
Sequence Rules

12____PatentIn 2.0   Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
    "bug"   resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13____ Misuse of n/Xaa   "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: US/10/608,804A   TIME: 09:43:18

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
    2 <110> APPLICANT: Yamamoto, Nobuko
    3        Okamoto, Tadashi
    4        Shimizu, Satoshi
    5        Suzuki, Tomohiro
W--> 6 <120> TITLE OF INVENTION: Method for Examining Reactivity and Method for Detecting a
Complex
W--> 7 <130> FILE REFERENCE: 03500.015716.1
W--> 8 <140> CURRENT APPLICATION NUMBER: 10/608,804A
    9 <141> CURRENT FILING DATE: 2003-06-30
   10 <150> PRIOR APPLICATION NUMBER: US/09/942,662
   11 <151> PRIOR FILING DATE: 2001-08-31
   12 <150> PRIOR APPLICATION NUMBER: JP 2000-263395
   13 <151> PRIOR FILING DATE: 2000-08-31
   14 <150> PRIOR APPLICATION NUMBER: JP 2000-263505
   15 <151> PRIOR FILING DATE: 2000-08-31
W--> 16 <160> NUMBER OF SEQ ID: 67
W--> 17 <210> SEQ ID NO: 1
   18 <211> LENGTH: 18
   19 <212> TYPE: DNA
   20 <213> ORGANISM: Artificial sequence
W--> 21 <220> FEATURE:
   22 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 23 <400> SEQUENCE: 1
   24   gatgggactc aagttcat 18
   25 <210> SEQ ID NO: 2
   26 <211> LENGTH: 18
   27 <212> TYPE: DNA
   28 <213> ORGANISM: Artificial sequence
W--> 29 <220> FEATURE:
   30 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 31 <400> SEQUENCE: 2
   32   gatgggactc aggttcat 18
   33 <210> SEQ ID NO: 3
   34 <211> LENGTH: 18
   35 <212> TYPE: DNA
   36 <213> ORGANISM: Artificial sequence
W--> 37 <220> FEATURE:
   38 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 39 <400> SEQUENCE: 3
   40   gatgggactc acgttcat 18
   41 <210> SEQ ID NO: 4
   42 <211> LENGTH: 18
   43 <212> TYPE: DNA
   44 <213> ORGANISM: Artificial sequence
```

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: **US/10/608,804A**   TIME: 09:43:18

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
W--> 45 <220> FEATURE:
     46 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 47 <400> SEQUENCE: 4
     48   gatgggactc atgttcat 18
     49 <210> SEQ ID NO: 5
     50 <211> LENGTH: 18
     51 <212> TYPE: DNA
     52 <213> ORGANISM: Artificial sequence
W--> 53 <220> FEATURE:
     54 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 55 <400> SEQUENCE: 5
     56   gatgggactc gagttcat 18
     57 <210> SEQ ID NO: 6
     58 <211> LENGTH: 18
     59 <212> TYPE: DNA
     60 <213> ORGANISM: Artificial sequence
W--> 61 <220> FEATURE:
     62 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 63 <400> SEQUENCE: 6
     64   gatgggactc gggttcat 18
     65 <210> SEQ ID NO: 7
     66 <211> LENGTH: 18
     67 <212> TYPE: DNA
     68 <213> ORGANISM: Artificial sequence
W--> 69 <220> FEATURE:
     70 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 71 <400> SEQUENCE: 7
     72   gatgggactc gcgttcat 18
     73 <210> SEQ ID NO: 8
     74 <211> LENGTH: 18
     75 <212> TYPE: DNA
     76 <213> ORGANISM: Artificial sequence
W--> 77 <220> FEATURE:
     78 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 79 <400> SEQUENCE: 8
     80   gatgggactc gtgttcat 18
     81 <210> SEQ ID NO: 9
     82 <211> LENGTH: 18
     83 <212> TYPE: DNA
     84 <213> ORGANISM: Artificial sequence
W--> 85 <220> FEATURE:
     86 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 87 <400> SEQUENCE: 9
     88   gatgggactc cagttcat 18
     89 <210> SEQ ID NO: 10
     90 <211> LENGTH: 18
     91 <212> TYPE: DNA
     92 <213> ORGANISM: Artificial sequence
W--> 93 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: **US/10/608,804A**   TIME: 09:43:18

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
      94 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 95 <400> SEQUENCE: 10
      96   gatgggactc cggttcat 18
      97 <210> SEQ ID NO: 11
      98 <211> LENGTH: 18
      99 <212> TYPE: DNA
     100 <213> ORGANISM: Artificial sequence
W--> 101 <220> FEATURE:
     102 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 103 <400> SEQUENCE: 11
     104   gatgggactc ccgttcat 18
     105 <210> SEQ ID NO: 12
     106 <211> LENGTH: 18
     107 <212> TYPE: DNA
     108 <213> ORGANISM: Artificial sequence
W--> 109 <220> FEATURE:
     110 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 111 <400> SEQUENCE: 12
     112   gatgggactc ctgttcat 18
     113 <210> SEQ ID NO: 13
     114 <211> LENGTH: 18
     115 <212> TYPE: DNA
     116 <213> ORGANISM: Artificial sequence
W--> 117 <220> FEATURE:
     118 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 119 <400> SEQUENCE: 13
     120   gatgggactc tagttcat 18
     121 <210> SEQ ID NO: 14
     122 <211> LENGTH: 18
     123 <212> TYPE: DNA
     124 <213> ORGANISM: Artificial sequence
W--> 125 <220> FEATURE:
     126 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 127 <400> SEQUENCE: 14
     128   gatgggactc tggttcat 18
     129 <210> SEQ ID NO: 15
     130 <211> LENGTH: 18
     131 <212> TYPE: DNA
     132 <213> ORGANISM: Artificial sequence
W--> 133 <220> FEATURE:
     134 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 135 <400> SEQUENCE: 15
     136   gatgggactc tcgttcat 18
     137 <210> SEQ ID NO: 16
     138 <211> LENGTH: 18
     139 <212> TYPE: DNA
     140 <213> ORGANISM: Artificial sequence
W--> 141 <220> FEATURE:
     142 <223> OTHER INFORMATION: Sample oligonucleotide
```

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/608,804A**

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
W--> 143 <400> SEQUENCE: 16
     144   gatgggactc ttgttcat 18
     145 <210> SEQ ID NO: 17
     146 <211> LENGTH: 18
     147 <212> TYPE: DNA
     148 <213> ORGANISM: Artificial sequence
W--> 149 <220> FEATURE:
     150 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 151 <400> SEQUENCE: 17
     152   gatggggctc aagttcat 18
     153 <210> SEQ ID NO: 18
     154 <211> LENGTH: 18
     155 <212> TYPE: DNA
     156 <213> ORGANISM: Artificial sequence
W--> 157 <220> FEATURE:
     158 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 159 <400> SEQUENCE: 18
     160   gatggggctc aggttcat 18
     161 <210> SEQ ID NO: 19
     162 <211> LENGTH: 18
     163 <212> TYPE: DNA
     164 <213> ORGANISM: Artificial sequence
W--> 165 <220> FEATURE:
     166 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 167 <400> SEQUENCE: 19
     168   gatggggctc acgttcat 18
     169 <210> SEQ ID NO: 20
     170 <211> LENGTH: 18
     171 <212> TYPE: DNA
     172 <213> ORGANISM: Artificial sequence
W--> 173 <220> FEATURE:
     174 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 175 <400> SEQUENCE: 20
     176   gatggggctc atgttcat 18
     177 <210> SEQ ID NO: 21
     178 <211> LENGTH: 18
     179 <212> TYPE: DNA
     180 <213> ORGANISM: Artificial sequence
W--> 181 <220> FEATURE:
     182 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 183 <400> SEQUENCE: 21
     184   gatggggctcg agttcat 18
     185 <210> SEQ ID NO: 22
     186 <211> LENGTH: 18
     187 <212> TYPE: DNA
     188 <213> ORGANISM: Artificial sequence
W--> 189 <220> FEATURE:
     190 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 191 <400> SEQUENCE: 22
```

RAW SEQUENCE LISTING   DATE: 08/09/2006
PATENT APPLICATION: US/10/608,804A   TIME: 09:43:18

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
       192    gatggggctc gggttcat 18
       193 <210> SEQ ID NO: 23
       194 <211> LENGTH: 18
       195 <212> TYPE: DNA
       196 <213> ORGANISM: Artificial sequence
W--> 197 <220> FEATURE:
       198 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 199 <400> SEQUENCE: 23
       200    gatggggctc gcgttcat 18
       201 <210> SEQ ID NO: 24
       202 <211> LENGTH: 18
       203 <212> TYPE: DNA
       204 <213> ORGANISM: Artificial sequence
W--> 205 <220> FEATURE:
       206 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 207 <400> SEQUENCE: 24
       208    gatggggctc gtgttcat 18
       209 <210> SEQ ID NO: 25
       210 <211> LENGTH: 18
       211 <212> TYPE: DNA
       212 <213> ORGANISM: Artificial sequence
W--> 213 <220> FEATURE:
       214 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 215 <400> SEQUENCE: 25
       216    gatggggctc cagttcat 18
       217 <210> SEQ ID NO: 26
       218 <211> LENGTH: 18
       219 <212> TYPE: DNA
       220 <213> ORGANISM: Artificial sequence
W--> 221 <220> FEATURE:
       222 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 223 <400> SEQUENCE: 26
       224    gatggggctc cggttcat 18
       225 <210> SEQ ID NO: 27
       226 <211> LENGTH: 18
       227 <212> TYPE: DNA
       228 <213> ORGANISM: Artificial sequence
W--> 229 <220> FEATURE:
       230 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 231 <400> SEQUENCE: 27
       232    gatggggctc ccgttcat 18
       233 <210> SEQ ID NO: 28
       234 <211> LENGTH: 18
       235 <212> TYPE: DNA
       236 <213> ORGANISM: Artificial sequence
W--> 237 <220> FEATURE:
       238 <223> OTHER INFORMATION: Sample oligonucleotide
W--> 239 <400> SEQUENCE: 28
       240    gatggggctc ctgttcat 18
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/09/2006
PATENT APPLICATION: US/10/608,804A TIME: 09:43:19

FYI

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:65; N Pos. 7,8,12
Seq#:66; N Pos. 7,11,12

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/608,804A**

DATE: 08/09/2006
TIME: 09:43:19

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

```
L:6 M:283 W: Missing Blank Line separator, <120> field identifier
L:7 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:16 M:283 W: Missing Blank Line separator, <160> field identifier
L:17 M:283 W: Missing Blank Line separator, <210> field identifier
L:21 M:283 W: Missing Blank Line separator, <220> field identifier
L:23 M:283 W: Missing Blank Line separator, <400> field identifier
L:29 M:283 W: Missing Blank Line separator, <220> field identifier
L:31 M:283 W: Missing Blank Line separator, <400> field identifier
L:37 M:283 W: Missing Blank Line separator, <220> field identifier
L:39 M:283 W: Missing Blank Line separator, <400> field identifier
L:45 M:283 W: Missing Blank Line separator, <220> field identifier
L:47 M:283 W: Missing Blank Line separator, <400> field identifier
L:53 M:283 W: Missing Blank Line separator, <220> field identifier
L:55 M:283 W: Missing Blank Line separator, <400> field identifier
L:61 M:283 W: Missing Blank Line separator, <220> field identifier
L:63 M:283 W: Missing Blank Line separator, <400> field identifier
L:69 M:283 W: Missing Blank Line separator, <220> field identifier
L:71 M:283 W: Missing Blank Line separator, <400> field identifier
L:77 M:283 W: Missing Blank Line separator, <220> field identifier
L:79 M:283 W: Missing Blank Line separator, <400> field identifier
L:85 M:283 W: Missing Blank Line separator, <220> field identifier
L:87 M:283 W: Missing Blank Line separator, <400> field identifier
L:93 M:283 W: Missing Blank Line separator, <220> field identifier
L:95 M:283 W: Missing Blank Line separator, <400> field identifier
L:101 M:283 W: Missing Blank Line separator, <220> field identifier
L:103 M:283 W: Missing Blank Line separator, <400> field identifier
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:111 M:283 W: Missing Blank Line separator, <400> field identifier
L:117 M:283 W: Missing Blank Line separator, <220> field identifier
L:119 M:283 W: Missing Blank Line separator, <400> field identifier
L:125 M:283 W: Missing Blank Line separator, <220> field identifier
L:127 M:283 W: Missing Blank Line separator, <400> field identifier
L:133 M:283 W: Missing Blank Line separator, <220> field identifier
L:135 M:283 W: Missing Blank Line separator, <400> field identifier
L:141 M:283 W: Missing Blank Line separator, <220> field identifier
L:143 M:283 W: Missing Blank Line separator, <400> field identifier
L:149 M:283 W: Missing Blank Line separator, <220> field identifier
L:151 M:283 W: Missing Blank Line separator, <400> field identifier
L:157 M:283 W: Missing Blank Line separator, <220> field identifier
L:159 M:283 W: Missing Blank Line separator, <400> field identifier
L:165 M:283 W: Missing Blank Line separator, <220> field identifier
L:167 M:283 W: Missing Blank Line separator, <400> field identifier
L:173 M:283 W: Missing Blank Line separator, <220> field identifier
L:175 M:283 W: Missing Blank Line separator, <400> field identifier
L:181 M:283 W: Missing Blank Line separator, <220> field identifier
L:183 M:283 W: Missing Blank Line separator, <400> field identifier
L:189 M:283 W: Missing Blank Line separator, <220> field identifier
```

VERIFICATION SUMMARY　　　　　　　　DATE: 08/09/2006
PATENT APPLICATION:　**US/10/608,804A**　　　TIME: 09:43:19

Input Set : **A:\Sequence Listing (2) 03500.015716.1.txt**
Output Set: **N:\CRF4\08092006\J608804A.raw**

L:191 M:283 W: Missing Blank Line separator, <400> field identifier
L:197 M:283 W: Missing Blank Line separator, <220> field identifier
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0

```
<210>65
  <211>18
  <212>DNA
  <213>Artificial sequence
  <220>
  <221>  misc_feature
  <222>  (7)..(8)
  <223>  n is A, G, C or T
  <220>
  <221>  misc_feature
  <222>  (10)..(10)
  <223>  n is A, G, C or T
  <400>65
atgaacnnga gncccatc 18
<210>66
  <211>18
  <212>DNA
  <213>Artificial sequence
  <220>
  <221>  misc_feature
  <222>  (7)..(7)
  <223>  n is A, G, C or T
  <220>
  <221>  misc_feature
  <222>  (11)..(12)
  <223>  n is A, G, C or T
  <400>66
gatgggnctc nngttcat 18
```

needs explanation — see item 11 on Error Summary Sheet

(12)..(12) "a is at location 10

see item 11 on Error Summary Sheet